

19980210.ba v01\_n917.bam.980210

>From ???@??? Wed Feb 11 00:55:17 1998  
Message-Id: <199802110405.WAA04013@sco.theporch.com>  
Date: Tue, 10 Feb 1998 22:05:44 CST  
Subject: BOATANCHORS digest 1917

BOATANCHORS Digest 1917

Topics covered in this issue include:

- 1) Re: 600 to 8 phm transformers--a handy source  
by Morris Odell <morriso@vifp.monash.edu.au>
- 2) Re: BC-348 Audio Amp Question  
by "Arden Allen" <aallen@sirius.com>
- 3) RE: R-390A radios for sale by George  
by Bill Wilson <billo@internettpport.net>
- 4) Re: Error Condition Re: ARC-5 Rcvr component needed  
by tomash1@airmail.net (Tom Aschenbrenner)
- 5) Re: HEEELP : Tuning TRC-77  
by eaj <eaj@hiwaay.net>
- 6) Various BC-610 models  
by jsm@intergate.bc.ca (Steve McDonald)
- 7) Re: Re 6SA7 Oscillator in SX-28  
by Ho4bart@aol.com
- 8) Re: 2 Packing Tips  
by Ho4bart@aol.com
- 9) Racal RA-117 Rx Info.  
by Dave Prince <davprin@gil.com.au>
- 10) RME Preselector FS  
by gcr2@po.CWRU.Edu (George C. Rybicki)
- 11) RE: R-390A radios for sale by George  
by Tom Norris <badger@telalink.net>
- 12) FS: Ham Stuff  
by "Walter Fairclough" <wfairclo@netcom.ca>
- 13) Re: Error Condition Re: ARC-5 Rcvr component needed  
by Sandy W5TVW <ebjr@worldnet.att.net>
- 14) WTB: Collins meter movement  
by Frank Scutch-EFS003 <Frank\_Scutch-EFS003@email.mot.com>
- 15) Re: R-390A radios for sale by George  
by "J. Mullis" <jmul@iland.net>
- 16) National FB-7 Questions  
by David Ragsdale <doragsda@polymail.cpunix.calpoly.edu>
- 17) ARC4 rocks FS  
by "Walter L. Marshall" <wmarshal@CapAccess.org>
- 18) Knight VFO?  
by "Walter L. Marshall" <wmarshal@CapAccess.org>
- 19) Re: R-390A radios for sale by George

- by John R Bookout K7JB <k7jb@ptld.uswest.net>
- 20) Re: Re 6SA7 Oscillator in SX-28  
by "Owens, Clarence" <owensc@nebeng.otis.com>
- 21) RE: R-390A radios for sale by George  
by WILLIAM HAWKINS <bill@iaxs.net>
- 22) Need Bay State Electronics SG153 Manual  
by "William L. Fuqua III" <wlfuqu00@pop.uky.edu>
- 23) Re: Using scope sawtooth for freq sweep  
by "N. West" <ninaw@u.washington.edu>
- 24) Tek 545  
by Brian.Harris@sv.sc.philips.com (Brian Harris)
- 25)  
by gpewitt@execpc.com
- 26) AWA OT CW Contest Rule Change ?  
by "Gregory S. Raven" <gsraven@cris.com>
- 27) Hallicrafters SR-150 Knobs Needed  
by "David M. Nance" <dmnance@roanoke.infi.net>
- 28) Re: ARC-5 Rcvr component needed  
by arc5@ix.netcom.com

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Date: Tue, 10 Feb 1998 15:14:56 +1100  
From: Morris Odell <morriso@vifp.monash.edu.au>  
To: boatanchors@sco.theporch.com  
Subject: Re: 600 to 8 phm transformers--a handy source  
Message-ID: <34DFD440.637D@vifp.monash.edu.au>

A. B. Bonds wrote:

>  
> Well, see, power transformers have their core optimized to run around  
> 60 Hz. That doesn't mean that they won't run at higher frequencies,  
> but no guarantee they will.

The same goes for B&W TV vertical output transformers which work quite well as single ended audio output transformers. (even better with negative feedback).

We're usually concerned with "communications" quality audio here anyway, not HiFi. The discussion regarding the design of audio output transformers is fascinating, but such exotic iron won't make much of a difference to the usual BA. (Yes, I know about such things as the SX28 but broadcast stations here are limited to 9khz spacing so the Fi is never very Hi) Hi :-)

73 de Morris VK3DOC

-----  
Date: Mon, 9 Feb 1998 20:23:19 -0800  
From: "Arden Allen" <aallen@sirius.com>  
To: "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: BC-348 Audio Amp Question  
Message-ID: <199802100422.UAA04318@mail1.sirius.com>

Dave Stinson says:

> Don't believe everything your read or hear!

Amen, Brother.

I always get a chuckle when I hear an old timer complain about transistors being hard to understand. Well, the truth is VACUUM TUBES ARE HARD TO UNDERSTAND. Be that as it may, understanding tube theory is essential to being handy at working on old radios. Questions about how to bias an audio output amplifier will then be much easier to grapple with and you will be able to spot baloney as it comes over the horizon instead of making your radio into a baloney sandwich (I know you wonder what they put in baloney).

So fellas and gals, STUDY TUBE THEORY. Like learning anything else, you will be glad you did.

Give your loved ones Gummy Bears  
Arden Allen KB6NAX aallen@sirius.com

-----  
Date: Mon, 09 Feb 1998 22:20:48 -0600  
From: Bill Wilson <billo@internettpport.net>  
To: "boatanchors@theporch.com" <boatanchors@theporch.com>  
Subject: RE: R-390A radios for sale by George  
Message-ID: <34DFD59F.70F1E935@internettpport.net>

On the subject of Uncle Sam destroying surplus R-390As: At the nearby Anniston Army Depot they routinely destroy fine old collectible guns instead of selling them to responsible collectors. (much to the disappointment of Andy). For what reasons I don't know but if it's good enough for weapons it's good enough for "outdated surplus communications junk".

Bill  
W4BIZ  
Jacksonville, Al.

-----  
Date: Mon, 9 Feb 98 22:38:03 -0600 (CST)  
From: tomash1@airmail.net (Tom Aschenbrenner)  
To: boatanchors@theporch.com  
Subject: Re: Error Condition Re: ARC-5 Rcvr component needed  
Message-ID: <m0y27SN-0001q8E@mail.airmail.net>

Hello...I'm restoring a 3 slot ARC-5 rcvr rack and associated rcvrs and need to find three of the C-24/ARC-5 Local Control Units. These are the small plug in modules that go into the front of the rcvr. This unit has a pot (sensitivity control) and a three position switch (CW-OFF-MCW) on the front. If there are any out there I would be glad to trade \$'s for them and be assured they will have a good home!

Regards, Tom A. - Dallas, Tx.

-----  
Date: Mon, 09 Feb 1998 21:47:22 -0800  
From: eaj <eaj@hiwaay.net>  
To: boatanchors@theporch.com  
Subject: Re: HEEELP : Tuning TRC-77  
Message-ID: <34DFE9EA.522C@hiwaay.net>

from eaj@hiwaay.net

Dear Steve et al: Welcome to the world of the TRC-77! It otherwise seems to be well-designed (you may have seen Dennis Starks' commentary on it; if not, I can send it).

I experienced the same difficulty. The slug MUST move, since the cap can't swing the coil over the whole 3 - 8 MC range. I got around this by putting in xtals within the capacitance range of the three slugs that were stuck! I took the assembly out only partially, as it's "Chinese Puzzle" style, and attempted to work on it. I determined that only drilling out the original slug and replacing it would work. Its just a lousy execution of the design - the slugs are too tight, and the shafts are too weak.

Mine seems to work well. Still, having to buy custom xtals for Rx is pretty stupid. Even the military outdid themselves on this one. By the time this radio was designed, they already knew how to synthesize off

one xtal per channel - and even one xtal per radio! Go figure.  
Hope this helps, even a little bit.  
N4TGC Eric

-----  
Date: Mon, 9 Feb 1998 14:28:11 -0800  
From: jsm@intergate.bc.ca (Steve McDonald)  
To: boatanchors@theporch.com  
Subject: Various BC-610 models  
Message-ID: <199802092228.0AA04268@cobra.intergate.bc.ca>

What are the main differences between the various models of BC-610s?  
Particularly, I'm looking for info on the "E" model but I hear mostly "H"s  
on the air.

Steve / VE7SL

-----  
Date: Tue, 10 Feb 1998 01:44:41 EST  
From: Ho4bart@aol.com  
To: boatanchors@theporch.com  
Subject: Re: Re 6SA7 Oscillator in SX-28  
Message-ID: <1bf50af2.34dff75b@aol.com>

In a message dated 98-02-09 08:42:01 EST, dgnova@erols.com writes,  
re the use of triode-wired pentragrid mixer used as oscillator:

>  
> Two guesses:  
>  
> 1) The circuit was originally designed around a single 6SA7  
> converter, then changed to 2 tubes. By using the 6SA7 as the  
> oscillator, they wouldn't have to redesign the oscillator coils.  
>  
> 2) The 6SA7 as an oscillator as a gm of 4000 umhos which is  
> higher than the 6J5 at 3000 umhos.

however--

does a similar consideration apply to the later Lafayettes with triode-  
connected 6BE6 ?

and i notice National did not do this in the NC-183. ( 6SA7 + 6J5 ).

how about Hammarlund, didn't they use 6BE6 + 6C4 ?

( btw: CQ for 3/ 62 pg 52 has you install a 6C4 after the 6J5 as an

oscillator buffer for increased stability in your NC-183 ).  
hue

-----  
Date: Tue, 10 Feb 1998 02:19:06 EST  
From: Ho4bart@aol.com  
To: boatanchors@theporch.com  
Subject: Re: 2 Packing Tips  
Message-ID: <3e3e286c.34dfff6c@aol.com>

In a message dated 98-02-09 23:09:24 EST, k5yf@wt.net writes:

> On the other hand, removing the knob does seem to be the surest bet  
> as far as the knob goes, but am wondering if having that roll on it also  
> protected the rest of the face.

i think your idea is a pretty good one. even if the knob is yanked, there's still the shaft to be pushed against.

this "suspending the front panel off the box" is the same idea i tried to get across back when we had our last packing go-round. i try to build some isolation in, like your rolls idea, after all, no one would work on their radio with it face down on the table, even when set on a blanket or such.

and i have a \*\*\*\*\* up Mackay receiver to show what can happen when it's just "put peanuts all around it" shipping.  
hue

-----  
Date: Tue, 10 Feb 1998 18:59:12 +1000  
From: Dave Prince <davprin@gil.com.au>  
To: boatanchors@sco.theporch.com, boatanchors@sco.theporch.com  
Subject: Racal RA-117 Rx Info.  
Message-ID: <34E016E0.4398@gil.com.au>

G'day fellow Anchorites,

                                    Last weekend I picked up an RA-117 rx. Can someone briefly tell me the differences between this and the RA-17 and does anyone have a manual for it. Thanks and cheers from DownUnder,

--  
Dave Prince VK4KDP  
davprin@gil.com.au  
Brisbane, Queensland, Australia

Collector and restorer of Military Radio and Signalling Equipment.

-----  
Date: Tue, 10 Feb 1998 08:13:26 -0500 (EST)  
From: gcr2@po.CWRU.Edu (George C. Rybicki)  
To: boatanchors@sco.theporch.com  
Subject: RME Preselector FS  
Message-ID: <199802101313.IAA04615@kanga.INS.CWRU.Edu>

RME Preselector FS, 0.5 to 42 mhz. Very nice condition but not tested.  
\$50 + shipping on 20 lbs from 44286. 73 George

-----  
Date: Tue, 10 Feb 1998 07:19:16 -0600  
From: Tom Norris <badger@telalink.net>  
To: billo@internettpport.net  
Cc: boatanchors@theporch.com  
Subject: RE: R-390A radios for sale by George  
Message-ID: <3.0.5.32.19980210071916.007bf100@mail1.telalink.net>

At 10:20 PM 2/9/98 -0600, Bill wrote:

> On the subject of Uncle Sam destroying surplus R-390As: At the nearby  
> Anniston Army Depot they routinely destroy fine old collectible guns  
> instead of selling them to responsible collectors. (much to the

I used ot subscribe to the mailings that DRMO used to put out.  
As it was explained in a very wordy government memo, the radio  
gear was not being sold due to "Liability Issues" -- yes, the dreaded  
L word again. The same reason that they dont sell whole vehicles,  
or even vehicles that can even be MADE whole - seems they are afraid  
someone will kill themselves or someone else, and thus no one can be trusted  
is what it seemed to boil down to.

I am sure with the radio gear, they are afraid some idiot will buy a radio  
and start jamming ( pick a radio service ) and endanger lives.

Sigh

America, land of the flying Lawyers.....

Tom

( Dont dislike lawyers per se, just the current hobby of superfluous  
litigation and such )

-----  
Date: Tue, 10 Feb 1998 09:07:01 -0500  
From: "Walter Fairclough" <wfairclo@netcom.ca>  
To: <boatanchors@theporch.com>  
Subject: FS: Ham Stuff  
Message-ID: <003001bd362d\$2971e440\$e95ab5cf@wfairclo.netcom.ca>

Gotta go. Need the space.

SX-111	- Good to Very Good	150.00	
HT-37	- Excellent		175.00 w/original box
(would			

consider swap for a similar

condition HT-30 or HT-32A)		
(SX-111 & HT-37)		300.00
S-76	- Very Good to Excellent	175.00
SX-43	- Good	125.00
SX-71	- Good	125.00
SX-96	- Good	125.00
HA-10	- Excellent	80.00

All prices in US dollars plus shipping.

Walter Fairclough  
wfairclo@netcom.ca

-----  
Date: Tue, 10 Feb 1998 14:20:41 +0000  
From: Sandy W5TVW <ebjr@worldnet.att.net>  
To: tomash1@airmail.net, boatanchors@theporch.com  
Subject: Re: Error Condition Re: ARC-5 Rcvr component needed  
Message-ID: <19980210142037.AAB6279@LOCALNAME>

At 10:38 PM 2/9/98 -0600, you wrote:

>  
>Hello...I'm restoring a 3 slot ARC-5 rcvr rack and  
>associated rcvrs and need to find three of the  
>C-24/ARC-5 Local Control Units. These are the small  
>plug in modules that go into the front of the rcvr.  
>This unit has a pot (sensitivity control) and a  
>three position switch (CW-OFF-MCW) on the front.  
>If there are any out there I would be glad to



>trade \$'s for them and be assured they will have  
>a good home!  
>     Regards, Tom A. - Dallas, Tx.  
>  
>  
>  
>  
>     Lots of luck!!!!

I looked high and low for these in the 1950's when the ARC-5 stuff was a dime a dozen. NEVER ran across one or a surplus dealer that had one or seen one! I joined a National Guard outfit in 1954 whose aircraft used the SCR-274N radio sets and they didn't have this "local control" adapter for test use! I'll bet if you run across one, it would bring more than a new boxed receiver! I'd say they were extremely rare, if they EVER existed in the field!

73,  
E. V. Sandy Blaize, W5TVW  
"Boat Anchors collected, restored, repaired, traded and used!"  
417 Ridgewood Drive  
Metairie, LA., 70001

\*\*860 Hartley 'ECO' construction "on hold"\*\*\*\*  
\*\*\* Looking for a TRC-10 transceiver \*\*\*\*\*  
\*\*\* Looking for an RAL receiver \*\*\*\*\*

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Date: Tue, 10 Feb 1998 8:55:15 -0600  
From: Frank Scutch-EFS003 <Frank\_Scutch-EFS003@email.mot.com>  
To: boatanchors@theporch.com  
Subject: WTB: Collins meter movement  
Message-ID: <"Macintosh \*/PRMD=MOT/ADMD=MOT/C=US/"@MHS>

Hi Group:

I've been having trouble with the s-meter in my Collins 75A-4. Before sending it off to Ram meter for repair, I would prefer to buy a used meter or meter movement. I've got the standard red dial A4 meter with the 50 ohm internal resistance. I think the meters on the A2, A3 and A4 were the same. A new s-line meter from Bartlett will work however it will not accept the old meter face.

If someone has a spare meter or movement for the Collins a-line for sale it would be much appreciated. Thanks.

Frank, W4FMS  
w4fms@aol.com

-----  
Date: Tue, 10 Feb 1998 09:09:01 -0600  
From: "J. Mullis" <jmul@iland.net>  
To: <badger@telalink.net>, "Old Tube Radios" <boatanchors@theporch.com>  
Subject: Re: R-390A radios for sale by George  
Message-ID: <199802101504.JAA03666@ultra.internetland.net>

There used to be, and may still be, the Civilian Marksmanship Program where gun club members, NRA members, etc., could get old army rifles from the Feds to help keep their shooting skills up. I'm talking M1 Garands, M1 Carbines, etc. Maybe they are afraid I'll attack someone with a 390A. We should get some of the more "ham friendly" congressmen to look into this and get it set up to where licensed US amateurs can get some of this equipment. John N0EE

-----  
Date: Tue, 10 Feb 1998 07:57:11 -0800 (PST)  
From: David Ragsdale <doragsda@polymail.cpunix.calpoly.edu>  
To: boatanchors@theporch.com  
Subject: National FB-7 Questions  
Message-ID: <199802101557.HAA13212@rubens.artisan.calpoly.edu>

Hi all,

Someone is describing what they call a FB-7 to me and a couple of things don't sound right, can anyone help me out? Here are the questionable items:

Meissner IF transformers (I would sure expect National components throughout).

Octal tubes (6K7, 6K7, 6K7, 6C5, 6V6 +plus 2 others without markings)

Knobs right below the coils where the toggle switches should be.

Could this be a modified FB-7 or late production version? I suspect it's a homebrew rig. Any help greatly appreciated.

73  
Dave  
KF6BOM  
doragsda@polymail.calpoly.edu

David Ragsdale, R.E.H.S., Environmental Health and Safety Manager  
Risk Management, California Polytechnic State University, San Luis Obispo  
dragsdal@calpoly.edu      \*\*\*\*\*      doragsda@oboe.calpoly.edu

-----  
Date: Tue, 10 Feb 1998 11:25:31 -0500 (EST)  
From: "Walter L. Marshall" <wmarshall@CapAccess.org>  
To: boatanchors@theporch.com  
Subject: ARC4 rocks FS  
Message-ID: <Pine.SUN.3.91-FP.980210112152.13499C-100000@cap1.capaccess.org>

Want to get rid of 110 rocks for ARC4. Cheap, plus shipping.  
Would donate them to Pompanito Submarine, but don't know how to  
contact them to see if they want them. Anyone know?  
Lon, KB3BVY

-----  
Date: Tue, 10 Feb 1998 11:27:51 -0500 (EST)  
From: "Walter L. Marshall" <wmarshall@CapAccess.org>  
To: boatanchors@theporch.com  
Subject: Knight VFO?  
Message-ID: <Pine.SUN.3.91-FP.980210112536.13499D-100000@cap1.capaccess.org>

What VFO would match the Knight T-60 TX? Want to sell me one?  
T-60 is a nice little TX. Been enjoying mine muchly.  
Lon, KB3BVY

-----  
Date: Tue, 10 Feb 1998 09:20:54 -0800  
From: John R Bookout K7JB <k7jb@ptld.uswest.net>  
To: badger@telalink.net  
Cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: R-390A radios for sale by George  
Message-ID: <34E08C76.5B25@ptld.uswest.net>

Tom Norris wrote:

>  
> At 10:20 PM 2/9/98 -0600, Bill wrote:  
> > On the subject of Uncle Sam destroying surplus R-390As: At the nearby  
> > Anniston Army Depot they routinely destroy fine old collectible guns  
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> I used ot subscribe to the mailings that DRMO used to put out.  
> As it was explained in a very wordy government memo, the radio

> gear was not being sold due to "Liability Issues" -- yes, the dreaded  
> L word again. The same reason that they dont sell whole vehicles,  
> or even vehicles that can even be MADE whole - seems they are afraid  
> someone will kill themselves or someone else, and thus no one can be trusted  
> is what it seemed to boil down to.  
>  
> I am sure with the radio gear, they are afraid some idiot will buy a radio  
> and start jamming ( pick a radio service ) and endanger lives.  
>  
> Sigh  
>  
> America, land of the flying Lawyers.....  
>  
> Tom  
>  
> ( Dont dislike lawyers per se, just the current hobby of superfluous  
> litigation and such )

--- SNIP ---

KEEPING R-390/R390A's and other Boat Anchors  
Alive!

Hi Tom and fellow BA Lovers:

What you say may be true. However, thinking back  
in time when I was in grade school and high school  
(50's). I can remember situations which indicated  
the contrary. I use to travel by bus to downtown  
Portland where the local Portland Radio and United  
Radio Supply stores had tables and tables of  
goodies which came from the military. (These are  
all gone now!)

Later, I went to a technical high school (Benson  
Polytechnic) and our electronics instructor who  
had been a radio operator in WWII inspired us to  
go after our ham tickets. The school even had a  
club station and call W7YK. He told us how we  
really missed to "good old days" of parts from  
military receivers and transmitters. (Then  
he was making monthly trips to Tektronix Inc.  
who supplied us with dumpster parts chassis).

Later after passing my Novice exam, I got on the  
air with a home brew 2 tube transmitter I built in  
Radio Shop Class. I never forgot the way he  
showed me how to test for the presence of RF

using a small lamp with shorted single turn across it! The moment of discovery was mine because how could this lamp light with a shorted wire across it! My receiver was a reworked ARC-5 on 80 meters.

Keeping these thoughts in mind, when I was a senior, I started to study code with a good friend who worked with "the" Phone Co (MAWBELL), he had another friend who was already heavily into the MARS program and received points for getting on the air and passing traffic. He told me that he received a monthly list of radio gear that could be traded for his accumulated points. One time when I was over visiting him, he was dismantling a huge transmitter rack full of parts HV Transformer, Relays, large vacuum tubes, vacuum variables etc (Boy was I impressed).

>From this story, I can only conclude that there was a time when military receivers & transmitters were very much available to the public from local radio stores and the MARS program. The issue of liability must be a recent one.

The danger I see here is if we make waves in the wrong place, we may end up in a situation where an edict goes out to send all BA's to the land fill! Some how we must keep this from happening.

There is one situation where I believe we have leverage. In 1996, I upgraded to Extra and several questions on this exam were very interesting to me.

- 1). What are the points of communication for an amateur station?
- 2). With which stations may an amateur station communicate?
- 3). Under what circumstances, if any, may an amateur station communicate with a non-amateur station?

Understanding the purpose behind these questions is critical to us and the FCC/Federal Government. We represent an interesting pool of communicators.

Where else could the Federal Government find an active pool of communicators who live, eat and breath radio communications. We even seek out, restore, make operational and operate our own stations.

The least they can do is to make sure that we are kept alive and well fed by supplying us with radio gear we can use in times of national emergency. As long as the Federal Government and FCC think they need communicators during times of national emergency; we have the leverage we need. So never put down ARES, RACES etc. Join your local Emergency Communications group. This makes us visible to the bean counters and we can show them we mean business.

We need to tell them in a diplomatic way that we need radio receivers, transmitters and emergency power to be active during times of emergency.

Regards to all.

John K7JB

-----  
Date: Tue, 10 Feb 1998 12:22:00 -0500  
From: "Owens, Clarence" <owensc@nebeng.otis.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Re 6SA7 Oscillator in SX-28  
Message-ID: <0E06AS5IK009JF@mailman.otis.com>

In a message dated Feb 10, 1998 @ 1:44AM, Ho4bart@aol.com wrote:

.....does a similar consideration apply to the later Lafayettes with triode-

connected 6BE6 ?

and i notice National did not do this in the NC-183. ( 6SA7 + 6J5 ).

how about Hammarlund, didn't they use 6BE6 + 6C4 ?

( btw: CQ for 3/ 62 pg 52 has you intall a 6C4 after the 6J5 as an oscillator buffer for increased stability in your NC-183 ).

hue

So I write:

Hey, I have one of those 183s! At least the ham who did it put a copy of the magazine article in the manual for the 183. Never really noticed

any greater or less stability than there is in my 173 or 183D though.

Clare Owens N2RJB  
owensc@nebeng.otis.com

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Date: Tue, 10 Feb 1998 12:30:12 -0600 (CST)  
From: WILLIAM HAWKINS <bill@iaxs.net>  
To: badger@telalink.net, boatanchors@theporch.com  
Subject: RE: R-390A radios for sale by George  
Message-ID: <199802101830.MAA10045@citrus.iaxs.net>

Tom, and friends,

>I am sure with the radio gear, they are afraid some idiot will buy a radio  
>and start jamming ( pick a radio service ) and endanger lives.

We work with it all the time, so safety is automatic (or at least on the periphery of our awareness). Other people may have been shocked (sorry :^) to learn that there are voltages above 5 volts in those old sets. The gov'ment is still in the protection business, so we're being protected from those dangerous voltages - and they're being protected from predatory lawsuits.

Regards,  
Bill Hawkins

Give your loved ones long, sharp knives - to see if they really love you.

-----  
Date: Tue, 10 Feb 1998 17:20:42 -0500 (EST)  
From: "William L. Fuqua III" <wlfuqu00@pop.uky.edu>  
To: boatanchors@theporch.com  
Subject: Need Bay State Electronics SG153 Manual  
Message-ID: <199802102220.RAA18190@pop.uky.edu>

I have a Bay State Electronics SG153 that is in need of repair. It is a 1800 to 4000 MHz signal generator with CW/FM/Pulse modulation modes. Please let me know if you have a manual that you may copy for me.  
Right now all I need is a schematic.

73

Bill wa4lav

William L. Fuqua III P.E. E-mail WLFUQU00@POP.UKY.EDU Phone (606) 257-4155  
Department of Physics and Astronomy CP-177 Chem. Phys. Bldg.

University of Kentucky ,

Lexington, Ky 40506-0055

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Date: Tue, 10 Feb 1998 16:32:44 -0800 (PST)  
From: "N. West" <ninaw@u.washington.edu>  
To: Henry van Cleef <vancleef@netcom.com>  
Cc: boatanchors@theporch.com, aallen@sirius.com  
Subject: Re: Using scope sawtooth for freq sweep  
Message-ID: <Pine.A41.3.96a.980210154330.28476A-100000@dante25.u.washington.edu>

> As Fred Powell discourses

> > I have a Hickock 288 signal generator that can provide a swept frequency  
> > signal for IF alignment, etc. It uses a 60 cycle signal provided to the  
> > grid of a reactance modulator and also has a jack for external modulation.  
> > I was able to hookup the HP 200CD to the ext mod jack and get my sweep  
> > rate down to 5 cycles/sec, but didn't have any luck with patching in the  
> > sawtooth output of my Tektronix 555 scope. I guess that the negative  
> > halves of the HP 200CD signal can get me sweep, but the all positive  
> > sawtooth won't. How can I easily convert my positive sawtooth into a  
> > negative sawtooth?...

> > This was all brought up by the discussion earlier on Boatanchors about  
> > using slow (4 cps) sweep rates to align crystal filters, etc. Can anyone  
> > share their opinion/experience/help in using a scope sawtooth output for  
> > modulating a sweep generator?

Hank Van Cleef response

> I think that where you are in trouble here is in assuming that the  
> scope sawtooth looks like "AC" to the reactance modulator. I don't  
> know the wiring of the 288, but suspect there is a blocking cap  
> between the external input and the reactance tube grid.

Well, there is no blocking cap and I was unable to get any response with the scope sawtooth set at fast sweep speeds as well. My intent in using the scope sweep was to get an inherently synchronous sweep and something a bit more linear than a sine wave. When using a sine wave sweep does only the negative half modulate the reactance tube? Even at 5 cps I can't hear that fast when I listen to the swept signal against the BFO in the radio.

> The Tek sweep circuit doesn't produce a "sawtooth." The "Miller  
> Integrator" is an op amp circuit which has a current drive to create  
> the sweep up. The diode in the grid circuit, turned off, allows the  
> current to drive the sawtooth up. When it is turned on, it feeds a



> larger current in the other direction, and the sweep runs down at a  
> very distinct slope, particularly on the slow sweep speeds. There is  
> a "hold-off" circuit that prevents re-triggering repetitive sweep for  
> a period that is quite long at low sweep speeds. This is needed to  
> allow the sweep generator to return to the point that the other gating  
> diode is turned on, and then settle down.

I am using the sawtooth output from the timebase front panel and it looks like a zero to +150V sawtooth waveform with a variable "hold-off" as you mentioned. This output is made available from a cathode follower driven off the Miller Runup circuit.

> I did not see any earlier article suggesting slow sweep rates for  
> alignment, and don't think you'll get much benefit from it...  
> If you really want to experiment with slower sweeps, the 200CD goes  
> down to 5 hz. The only gripe about using a sine wave for sweep is  
> that if you put the peak point in the center, this is where the  
> frequency (df/dt) is moving the fastest, and at slow speeds you'll see  
> trace dimming in the center compared to the ends. A triangular wave  
> generator (such as a Wavetek) might be a little better. I don't think  
> you are going to see much sideband attenuation through a Lamb crystal  
> filter at a 60 hz. rate. Unless the laws of physics have changed  
> since the 1940's, we're talking about circuits that were used to  
> make some pretty serious measurements on those circuits in the late  
> thirties, with a pretty simple scope, like an RCA 158.

Granted, this is something that can be done with a motor driven sweep generator and a very simple scope, but I wanted to tryout the scope sweep idea and compare various sweep speeds.

Arden Allen also commented:

I found that when sweeping the crystal filter in an SX-110 I had to slow down to about 10 Hz to avoid distortion of the bandpass curve due to the long ring down time of the crystal. One thing you must be able to do is sweep full time, i. e., don't turn off the sweep output during retrace time. That way if the curve is "leaning" due to too fast of a sweep you will see that the up sweep and down sweep curves don't overlap. You have to slow down the sweep until distortion is minimized as indicated by both up and down sweeps overlapping perfectly.

Is crystal ringing the only reason to use slow sweeps?

Thanks for your help and hope to hear more

Fred Powell  
c/o  
ninaw@u.washington.edu

Fred.Powell@PSS.boeing.com

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Date: Tue, 10 Feb 1998 19:08:15 -0800  
From: Brian.Harris@sv.sc.philips.com (Brian Harris)  
To: boatanchors@theporch.com  
Subject: Tek 545  
Message-ID: <000072E2.1914@svlima.sv.sc.philips.com>

Anybody know the max freq (-3 dB) for a Tektronix 545 scope? What's one worth in working condition? It has two plug-ins, one dual trace, one differential.

Thanks, Brian Harris WA5UEK

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Date: Tue, 10 Feb 98 18:52:59 PST  
From: gpewitt@execpc.com  
To: boatanchors@listserv.tempe.gov, boatanchors@theporch.com,  
HEATH@listserv.tempe.gov, HEATH@QTH.NET  
Message-ID: <Chameleon.980210190053.gpewitt@execpc.com>

I never thought that I would find a Heath Chippewa but I got lucky. Naturally I need a manual. Either an original or a good copy. Happy to pay costs.  
Now my Apache won't be so jealous of the Marauder/Warrior pair. Good thing that's a solid bench. Apache/Mohawk/Chippewa next to Marauder/Mohawk/Warrior with a Seneca thrown in for grins. Guess I need another Mohawk for the 6 and 2 meter receive converters that go with the Seneca. Now for another 700 mile round trip to pick it up.  
Thanks and 73 Gary

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Name: Gary Pewitt N9ZSV/KT  
6120 W. Calumet Rd. Apt 204  
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Time: 18:52:59

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Date: Tue, 10 Feb 1998 20:59:50 -0500  
From: "Gregory S. Raven" <gsraven@cris.com>  
To: boatanchors@theporch.com  
Subject: AWA OT CW Contest Rule Change ?  
Message-ID: <2.2.32.19980211015950.00ffcab8@pop3.cris.com>

GM Boatanchorites-

Anyone participating in the AWA OT contest ?

I just took a look at the rules and just about fell out of my chair. I am planning to use 1941 vintage military gear in the contest. In years past, 1941 or earlier gear counts for a multiplier in your contest score but.....

This year's rules change the date to 1940 or earlier ! Rules are shown on page 18 of the February 1998 AWA OT Bulletin.

Anyone have the story on this ? Sure hope it's a typo ! I've spent a lot of time getting this stuff together.

73 de Greg Raven KF5N  
Member Morse Telegraph Club TP Chapter  
Visit "Telegraph Lore"  
<http://www.cris.com/~Gsraven/index.shtml>

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Date: Tue, 10 Feb 1998 22:17:09 -0800  
From: "David M. Nance" <dmnance@roanoke.infi.net>  
To: BOATANCHORS@LISTSERV.TEMPE.GOV, boatanchors@theporch.com,  
hallicrafters@qth.net  
Subject: Hallicrafters SR-150 Knobs Needed  
Message-ID: <34E14265.6E50@roanoke.infi.net>

I need two knobs for my recently acquired Hallicrafters SR-150 transceiver. They are also used on the SR-160, HT-44 and SX-117 (possibly others):

1. one of the lever type control knobs that goes behind the round ones.
2. either a stainless steel insert for the small round knobs or a

complete knob.

Also, need a manual (or copy) for the SR-150. Just thought I'd check with the list members before going the dealer route.

I would also appreciate any comments from members who are familiar with this rig or the HT-44/SX-117 combo. I just picked up the SR-150 to go with my HT-44/SX-117. I don't know why but I just like the styling of these mid 60's Hallicrafters. I ultimately would like to get the HT-45 Loudenboomer to go with it but that's further down on the list.

73's

Dave - WB4SSE  
Roanoke, VA  
dmnance@roanoke.infi.net

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Date: Tue, 10 Feb 1998 22:02:24 -0600 (CST)  
From: arc5@ix.netcom.com  
To: boatanchors@sco.theporch.com  
Subject: Re: ARC-5 Rcvr component needed  
Message-ID: <1998210215525319169@>

tomash1@airmail.net wrote:

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>

>Hello...I'm restoring a 3 slot ARC-5 rcvr rack and  
>associated rcvrs and need to find three of the  
>C-24/ARC-5 Local Control Units....

Tom, these units have always been very difficult to find.  
I've been collecting for many years and only have a couple.  
I'd be surprised if you find three anytime soon.

Here are two options you might want to consider:

1. Use the original 3-receiver control head.  
These can still be found for \$20-\$25 and have all the controls you need.
2. Build all the controls into the power supply cabinet.  
All the connections for the controls come out the back of the radios and into the rack, so you can make a "control panel" as part of your power supply.

Good Luck on the project, OM!

73 DE Dave Stinson AB5S  
arc5@ix.netcom.com

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End of BOATANCHORS Digest 1917

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